

Mine File  
Wayne

m/039/002

DOGM  
MINERALS PROGRAM  
FILE COPY

Redmond, Utah

June 3, 1991

May?

Department of Natural Resources  
Lowell P. Braxton

We received your letter of May 1, 1991. It appears that you paid little attention to our letter of January, 5, 1991, so your demands are still unreasonable. As with the salt pits it is neither reasonable or appropriate to M.D.F.S. the clay pits.

Furthermore you have not considered that the Redmond Development Co. Inc. has the property under lease and all roads have post mining use.

We will bond for \$160,000 which we feel is reasonable. Please send us papers so we can have our bank make an irrevocable letter of credit. Thank you,

*Milo J. Bosshardt*

Milo J. Bosshardt

P.S. If you take four months to answer this, don't hold us to any completion deadline.

RECEIVED

MAY 06 1991

DIVISION OF  
OIL GAS & MINING



**RECLAMATION ESTIMATE**  
**Redmond Clay and Salt Company**  
**North Mining Property**  
**M/039/002**

**PAGE 1 of 6**  
**last revision 4/17/91**  
**Sanpete County**

**Prepared by Utah State Division of Oil, Gas & Mining**

**Reclamation Details – North Mine Property**

- Areas designated as Pre-Law by the Division are to be left as is
- Closure of all mine portals by blasting/backfilling for 15 feet inside
- Regrade portal closure to a 2 horizontal: 1 vertical slope (26 degrees)
- 2 salt mine portals; portal dimensions 20 ft x 25 ft
- Salt Mine highwalls are 50 ft high for entire pit area
- Clay Mine highwalls are 20 ft high for entire pit area
- Pit highwalls to be blasted to 1:1 slope (45 degrees) for entire perimeter
- CLAY PIT floors to be Ripped,Mulched,Disked,Fertilized, & Seeded(R-M-D-F-S)
- Waste dumps & piles to be regraded to a 3h:1v slope (18 degrees)
- All waste dumps & piles to be M-D-F-S
- Roads without post-mining use to be R-M-D-F-S
- TOTAL area in north mine area to be reclaimed = 10.47 acres

<u>Description</u>	<u>Amount</u>	<u>\$/Unit</u>	<u>Cost-\$</u>
Blasting 2 portals	560 CY	5.55	3,108
Regrading 2 portal closures	280 CY	0.25	70
Blasting salt pit highwalls	715 LF	1.05	751
Rip Salt pit floor	0.81 acre	955	0
M-D-F-S Salt pit floor	0.81 acre	1,480	0
Blasting clay pit highwalls	4,290 LF	0.97	4,161
Rip Clay pit floors (0.40 MPH)	4.07 acre	603	2,454
M-D-F-S Clay pit floors	4.07 acre	1,480	6,024
Regrade waste dump	1.39 acre	802	1,115
M-D-F-S Waste dump	1.39 acre	1,480	2,057
Regrade gravel pile	1.57 acre	802	1,259
M-D-F-S Gravel pile	1.57 acre	1,480	2,324
Rip roads & regrade berm(0.30 mph)	3.44 acre	799	2,749
M-D-F-S Roads	3.44 acre	1,480	5,091
SUBTOTAL			31,162
+ 10% CONTINGENCY			3,116
SUBTOTAL			34,278
+ 5 yr ESCALATION(1.45%)			2,558
<b>NORTH MINING PROPERTY SUBTOTAL IN 1996-\$</b>			<b>\$36,836</b>



**RECLAMATION ESTIMATE**  
**Redmond Clay and Salt Company**  
**South Mining Property**  
**M/039/002**

**PAGE 2 of 6**  
**4/17/91**

**Sanpete County**

**Prepared by Utah State Division of Oil, Gas & Mining**

**Reclamation Details – South Mine Property**

- Closure of all mine portals by blasting/backfilling for 15 feet inside
- Regrade portal closure to a 2 horizontal: 1 vertical slope (26 degrees)
- 4 salt mine portals; portal dimensions 20 ft x 50 ft
- Salt Mine highwalls are 60 ft high for entire pit area
- Pit highwalls to be blasted to 1:1 slope for entire perimeter
- SALT PIT floors WILL NOT receive revegetation treatments
- Waste dump & new earth removal area regraded to a 3h:1v slope (18 degrees)
- Waste dump & new earth removal areas to be M-D-F-S
- Half of Yard area (includes facilities area) to be R-M-D-S-F
- ASSUMED: Metal scrap to be buried on mine site and area R-M-D-S-F
- Roads without post-mining use R-M-D-S-F; TOTAL reclaim. = 13.52 acre

<u>Description</u>	<u>Amount</u>	<u>\$/Unit</u>	<u>Cost-\$</u>
Blasting 4 portals	1,112 CY	5.55	6,172
Regrading 4 portal closures	556 CY	0.25	139
Blasting salt pit highwalls	1,925 LF	1.51	2,907
Rip Salt pit floor	2.06 acre	955	0
M-D-F-S Salt pit floor	2.06 acre	1,480	0
Regrade Waste dump	1.08 acre	802	866
M-D-F-S Waste dump	1.08 acre	1,480	1,598
Regrade Earth removal area	2.51 acre	802	2,013
M-D-F-S Earth removal area	2.51 acre	1,480	3,715
Rip 1/2 Yard area (0.30 mph)	2.50 acre	799	1,998
M-D-S-F 1/2 Yard area	2.50 acre	1,480	3,700
Bury metal scrap	0.77 acre	1,210	932
Rip Metal Scrap area (0.30 mph)	0.77 acre	799	615
M-D-S-F Metal Scrap area	0.77 acre	1480	1,140
Rip roads & regrade berm(0.30 mph)	6.22 acre	799	4,970
M-D-F-S Roads	6.22 acre	1,480	9,206
SUBTOTAL			39,969
+ 10% CONTINGENCY			3,997
SUBTOTAL			43,966
+ 5 yr ESCALATION(1.45%)			3,281
<b>SOUTH MINING PROPERTY SUBTOTAL-A</b>			<b>IN 1996-\$ 47,247</b>



**RECLAMATION ESTIMATE**  
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**South Mining Property**  
**M/039/002**

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**4/17/91**  
**Sanpete County**

**Prepared by Utah State Division of Oil, Gas & Mining**

**Reclamation Details - South Mine Property --CONTINUED--**

- Pond area to be backfilled/regraded and M-D-S-F
- Facilities with no postmine use demolished & buried on site; no salvage value
- ASSUMED: The following dimensions for each facility listed below
- Shed 45'x20'x18'; Shop 70'x30'x20'; Primary Crusher 60'x30'x20';
- Secondary Crusher 60'x30'x20'; Mill 150'x80'x25'; Bulk Storage 150'x140'x25';
- Scales 75'x20'x15'; Old Compressor House 30'x30'x12'; Old Pump
- House 30'x30'x12'; Compressor House 30'x30'x12'; Tank 25' diameter;
- ASSUMED: Crushers have reinforced concrete; bldgs have concrete floors

<u>Description</u>	<u>Amount</u>		<u>\$/Unit</u>	<u>Cost-\$</u>
Backfill/Regrade Pond	709	CY	0.42	298
M-D-S-F Pond area	0.44	acre	1480	651
Demolish Shed **POST MINING USE **	16,200	CF	0.20	0
Demolish Shop **POST MINING USE **	42,000	CF	0.20	0
Shop Concrete Floor	0	SY	11.75	0
Demo./Remodel Primary Crusher[1/4]	9,000	CF	0.20	1,800
Crusher Concrete--buried onsite--	40	CY	245	9,800
Demo./Remodel Secondary Crusher[1/4]	9,000	CF	0.20	1,800
Crusher Concrete--buried onsite--	40	CY	245	9,800
Demolish/remodel Mill [1/5 of area]	60,000	CF	0.20	12,000
Demo. Mill Concrete Floor	1333	SY	11.75	0
Demo. Bulk Str. **POST MINING USE **	525,000	CF	0.20	0
Demo. Bulk Storage Floor **POST USE **	2333	SY	11.75	0
Demolish Scales	22,500	CF	0.20	4,500
Demo. Old Pump House	10,800	CF	0.20	2,160
Demo. Old Compressor House	10,800	CF	0.20	2,160
Demo. Compressor House	10,800	CF	0.20	2,160
Demolish Tank	1	ea	500	500
SUBTOTAL				47,629
+ 10% CONTINGENCY				4,763
SUBTOTAL				52,392
+ 5 yr ESCALATION(1.45%)				3,910
SOUTH MINING PROPERTY SUBTOTAL-B			IN 1996-\$	\$56,302

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RECLAMATION ESTIMATE  
Redmond Clay and Salt Company  
Clay Mining Property  
M/039/002

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4/17/91

Sanpete County

Prepared by Utah State Division of Oil, Gas & Mining

Reclamation Details – Clay Mine Property

- ASSUMED: Clay Mine highwalls are 20 ft high for entire pit area
- Pit highwalls to be blasted to 1:1 slope for entire perimeter
- Four Pits: (1) 1.17 acre P=1,040'; (2) 2.61 acre P=1,250';
- (3) 1.18 acre P=1,040'; (4) 2.44 acre P=2,080';
- Pit floors to be R-M-D-F-S
- ASSUMED: Clay Pads have an earthen base
- Two Clay Pads: (1) 2.36 acre; (2) 11.16 acre; to be R-M-D-S-F
- Brine Pond to be backfilled/regraded -NO REVEGETATION TREATMENTS
- ASSUMED: Clay Mill to have a post mining use
- ASSUMED: Clay Mill dimensions are 250'x100'x20', with a concrete floor
- Roads without post-mining use to be R-M-D-S-F; TOTAL reclaim. = 29.85 acre

<u>Description</u>	<u>Amount</u>	<u>\$/Unit</u>	<u>Cost-\$</u>
Blasting clay pit highwalls	5,410 LF	0.97	5,248
Rip Clay pit floors(0.40 mph)	7.40 acre	603	4,462
M-D-F-S Clay pit floors	7.40 acre	1,480	10,952
Rip Clay Pads	13.52 acre	955	12,912
M-D-S-F Clay Pads	13.52 acre	1480	20,010
Backfill/Regrade Brine Pond	0.69 acre	1210	835
M-D-S-F Brine Pond	0.69 acre	1480	1,021
Demo. Clay Mill**POST MINING USE**	500,000 CF	0.20	0
Demo. Clay Mill Floor**POST USE**	2,777 SY	9.20	0
Rip roads & regrade berm(0.30 mph)	8.24 acre	799	6,584
M-D-F-S Roads	8.24 acre	1,480	12,195
SUBTOTAL			74,218
+ 10% CONTINGENCY			7,422
SUBTOTAL			81,640
+ 5 yr ESCALATION(1.45%)			6,093
CLAY MINING PROPERTY SUBTOTAL	IN 1996-\$		\$87,733